WHAT IS CLAIMED IS:

1. A vaccine comprising a mixture or linear array of peptides, or variants thereof, selected from the peptides set forth in Table 3 and designated Th/A-CTL to Th/I-CTL and linear arrays set forth in Table 4 and designated MVA 6 - MVA 9.

A polypeptide having the formula $Th_1-X_1-Th_2-X_2-Th_3-X_3...Th_N-X_N$ wherein Th is a immunodominant T helper epitope, X is an MHC Class I cytotoxic T cell epitope and N is any number.

- 3. The polypeptide according to claim 2 wherein N is 1 to 20.
- 4. The polypeptide according to claim 3 wherein N is 4 to 15.
- 5. The polypeptide according to claim 4 wherein N is 6 to 12.
- 6. A DNA sequence encoding the polypeptide of claim 2.
- 7. A composition comprising the polypeptide of claim 2 and a carrier.
- 8. A composition comprising the DNA sequence of claim 6 and a carrier.

add (3)